Computer Science Certificate

This program map represents one possible path for completing this program. **Please see a counselor** to create an educational plan that is customized to meet your needs. This path is not a guarantee of course availability or financial aid applicability.

First Year

Semester 1

CAT.	COURSE	TITLE	UNIT
Мај	CISC 310	Introduction to Computer Information Science	3
Мај	CISP 301	Algorithm Design and Implementation	4
Мај	CISC 323	Linux Operating System	1
Мај	CISC 324+	Intermediate Linux Operating System	1

+ Prerequisite for CISC 324: CISC 323 with a grade of "C" or better

Semester 2

10 Units

9 Units

CAT.	COURSE	TITLE	UNIT
Мај	CISP 360+	Introduction to Structured Programming	4
Мај	CISP 350+	Database Programming	3
ME		*Major Elective (List A)	3

*See List in Semester 4.

+ Prerequisite for CISP 360: CISP 301 with a grade of "C" or better

+ Prerequisite for CISP 350: CISA 323 or CISP 301 with a grade of "C" or better

Second Year

Semester 3

11	Ur	nits
	•••	

CAT.	COURSE	TITLE	UNIT
Мај	CISP 310 ⁺	Computer Architecture and Organization	4
ME	CISP 400 ⁺ / 401 ⁺	Major Elective	4
ME		*Major Elective (List A)	3

*See List in Semester 4.

+ Prerequisite for CISP 310: CISP 301 and 360 with grades of "C" or better

+ Prerequisite for CISP 400 & 401: CISP 360 with a grade of "C" or better

Semester 4

Catalog: 2023-24

Total Units: 37

Legend

- (H) Honors
- Elec Elective
- **GE** General Education
- Maj Required Core
- ME Major Elective

Disclaimer

Every effort has been made to ensure that what is listed in the SCC Program Paths are accurate. The courses, the course sequencing, and the programs are subject to change without notice by the administration of the Los Rios Community College District and Sacramento City College at the discretion of the district and Sacramento City College. Further, Sacramento City College reserves the right to amend any course or program.

PLEASE SEE AN SCC COUNSELOR.

Department Notes

- Students are encouraged to contact the CIS faculty for course sequence adjustments.
- Department contact: Meili Xu

XuM@scc.losrios.edu

Certificate of Achievement Requirements

Certificates of Achievement require a grade of "C" or better in each course with a minimum of 12 units completed at Sacramento City College.

Important Links

SCC General Counseling Computer Information Science Business & Industry Meta Majors

CAT.	COURSE	TITLE	UNIT
Maj	CISP 430+	Data Structures	4
ME	CISP 440 ⁺ / 457 ⁺	Major Elective	3
+ Prereq	uisite for CISP 430: CI	SP 400 or 401 with a grade o	of "C" or bette
+ Prereq	uisite for CISP 440: CI	SP 400 or 401 with a grade o	of "C" or bette
better; ar		SA 323 and CISC 310 with g ng: CISP 320, CISP 360, CIS C" or better	
Major El	ective List A (A minimu	m of 6 units from the followir	ıg)
CISC 35 ⁻	1 Introduction to Local A	rea Networks	
CISC 35	5 Introduction to Data Co	ommunications	
CISN 30	3 Network Administration	n - Linux Server	
CISP 357	introduction to Big Data	a	
CISP 358	3+ Data Analysis		
CISP 359	+ Data Modeling and M	lachine Learning	
CISP 362	2+ Programming for Mot	oile Devices	
CISP 40 ²	+ Object Oriented Prog	ramming with Java	
CISP 457	7+ Introduction to Syster	ns Analysis & Design	
CISS 300) Introduction to informa	tion Security Systems	
) Network Security Fund	lamentals	
CISS 310			
	7 Introduction to Web D	evelopment coding HTML &	CSS
CISW 32	7 Introduction to Web D 0+ Client-side Web Scri		CSS

+ **Prerequisite for CISP 362:** CISP 301, 360, 400, or 401 with a grade of "C" or better; or experience using any modern, high-level programming language

+ Prerequisite for CISW 400 & 410: CISW 327 with a grade of "C" or better; or equivalent experience hand-coding Web pages; AND CISP 301 with a grade of "C" or better or equivalent programming experience

Published December 18, 2023